

## ▶ AGM Long Life Batteries



**Solutions for the toughest requirements**



Triathlon System GmbH, with its headquarters in Fürth/Bavaria and branches throughout Germany, is your specialist for battery-supported power supply systems.

systems. Our high level of specialist know-how and many years of experience in

battery and charger technology are the best basis for comprehensive and competent advice.

### **Systems for emergencies and peak demand**

Our product range includes batteries of all common technologies, as well as safety lighting systems, UPS systems, DC systems and systems for many other applications.

Our installation and service teams ensure the installation and smooth functioning of our products. The range of services is supported exclusively by renowned and reliable partners.

The changing, harsh conditions in which our batteries and power supply systems are used are met with **ENDURANCE**, full **COMMITMENT** and maximum **PERFORMANCE**.

**Endurance. Commitment.**

## ▶ AGM LL

The Triathlon LL range with AGM technology stands for the highest demands.

Areas of application include uninterruptible power supplies (UPS), telecommunications, information technology and security lighting.

The highest quality standards are met through:

- ✓ Certification in line with ISO 9001 and ISO 14001
- ✓ IEC 60896 Parts 21 & 22 and BS 6290 Part 4
- ✓ Extensive end testing of products prior to dispatch

### BATTERY CHARACTERISTICS

- ▶ Sealed VLRA (valve-regulated lead acid) batteries – electrolyte is fixed in a glass mat
- ▶ Outstanding high-current capability thanks to low internal resistance
- ▶ High power density, low size ratio
- ▶ Maintenance-free
- ▶ Safety valve protects against excessive high pressure
- ▶ Low self-discharge rate:  
Can be stored for up to 9 months under normal conditions at +20 °C
- ▶ Service life of 12 years or more in continuous battery power supply mode according to EUROBAT
- ▶ No transport restrictions  
(in line with IATA, DGR, sentence A67)

#### ▶ Applications:

- Uninterruptible power supplies (UPS)
- Emergency lighting
- Stationary back-up power systems in power stations and remote stations
- Telecommunications and electrical equipment
- Switchgear
- Automation technology, robotic systems
- Wireless and radio systems
- Distance measurement systems
- Signalling systems



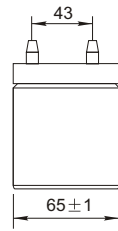
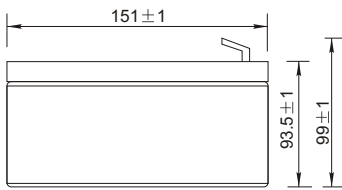
# Maximum Performance

## ► Technical Data

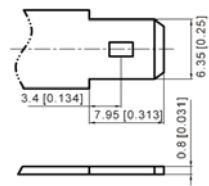
12+ YEARS, LONG LIFE										
Battery type	Nominal voltage	Nominal capacity C <sub>10</sub>	Nominal capacity C <sub>20</sub>	Length (L)	Width (W)	Height (H)	Typical weight	Internal resistance	max. discharge current	Connection
	V	Ah	Ah	max. mm	max. mm	max. mm	kg	mOhm	A	
LL 12007	12	7	7,4	151	65	99	2,45	18,0	105	T2
LL 12012	12	12	12,7	151	98	101	3,80	18,0	180	T2
LL 12018	12	18	19,1	182	77	168	5,70	16,0	270	T12
LL 12026	12	26	27,6	166	175	125	8,10	12,0	390	T12
LL 12028	12	28	29,6	166	125	175	8,60	12,0	420	T12
LL 12033	12	33	35,0	197	130	170	10,20	11,0	495	T6
LL 12045	12	45	48,1	197	165	170	14,50	9,0	540	T6
LL 12055	12	55	58,8	228	137	230	17,70	7,5	660	T6
LL 12060	12	60	64,2	260	168	216	21,00	7,4	720	T6
LL 12065	12	65	69,6	348	167	178	21,00	7,3	780	T6
LL 12070	12	70	75,0	348	167	178	24,00	6,6	840	T6
LL 12075	12	75	80,2	260	168	214	23,00	6,6	900	T6
LL 12090	12	90	96,4	305	168	213	27,50	5,0	1080	T6
LL 12100	12	100	107,0	330	173	220	31,50	4,9	1200	T11
LL 12120	12	120	128,4	408	177	225	37,60	4,0	1300	T11
LL 12140	12	140	149,8	345	172	280	45,50	4,0	1400	T11
LL 12150	12	150	160,5	483	170	239	48,20	3,5	1500	T11
LL 12200	12	200	214,0	522	240	224	65,00	2,7	2000	T11
LL 12250	12	250	267,5	522	268	226	77,00	2,5	2500	T11
LL 06100	6	100	107,0	195	170	212,5	16,50	5,0	1200	T6
LL 06150	6	150	160,5	260	180	253	23,00	3,0	1800	T11
LL 06200	6	200	214,0	322	178	234	35,00	1,4	2000	T11

# ► Technical Drawings

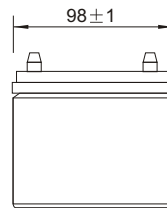
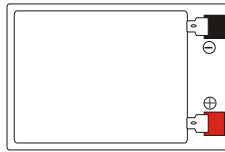
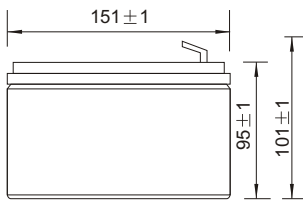
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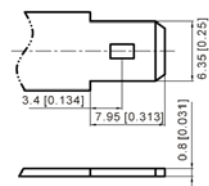
Connection T2



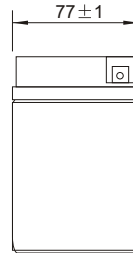
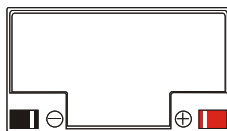
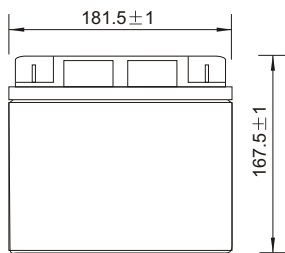
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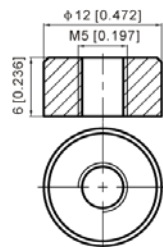
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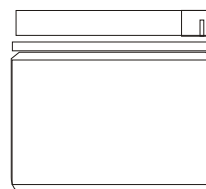
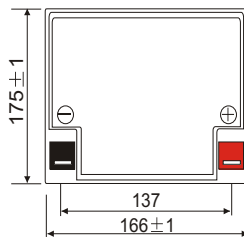
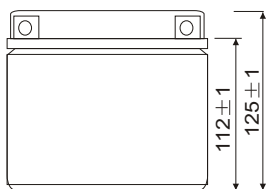
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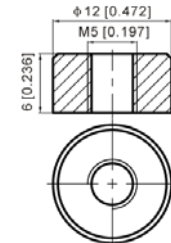
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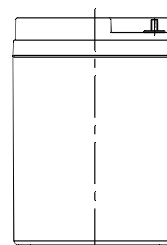
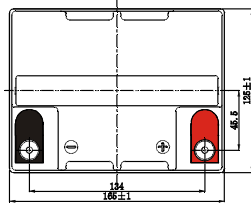
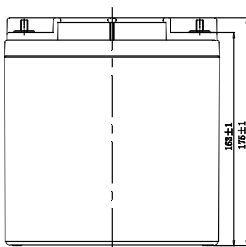
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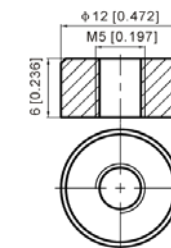
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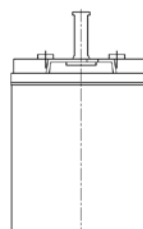
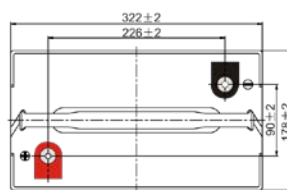
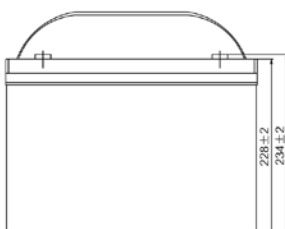
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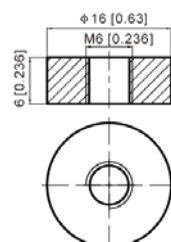
Connection T12



LL 12033

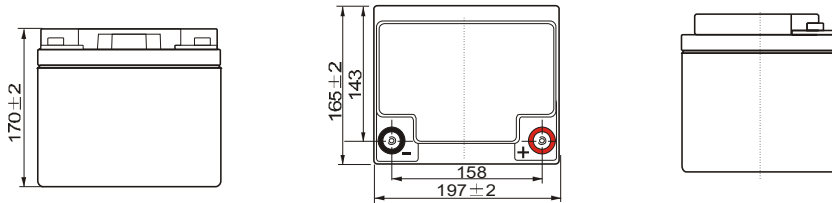


Connection T6

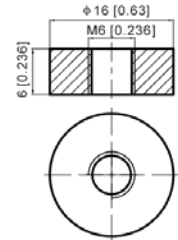


# Technical Drawings

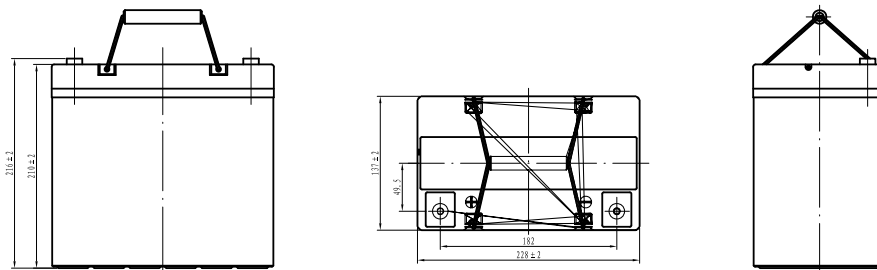
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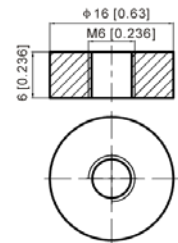
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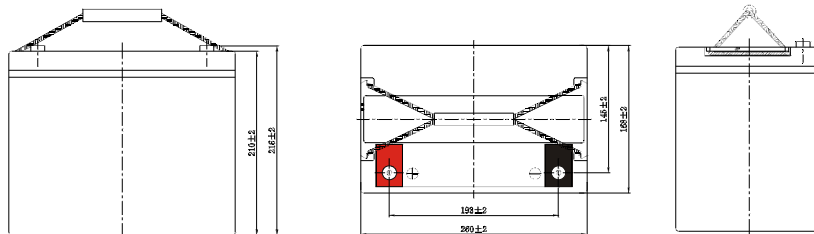
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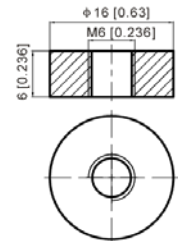
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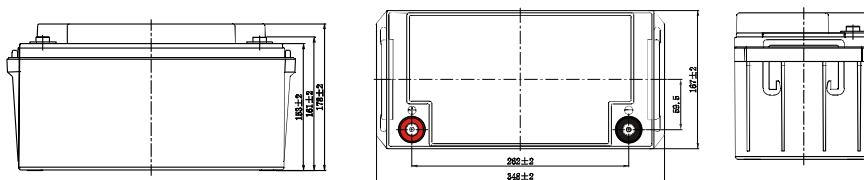
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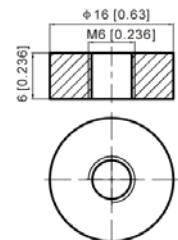
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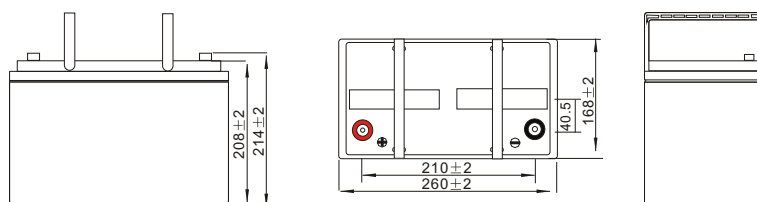
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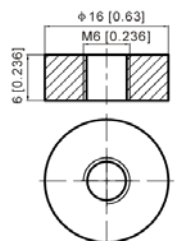
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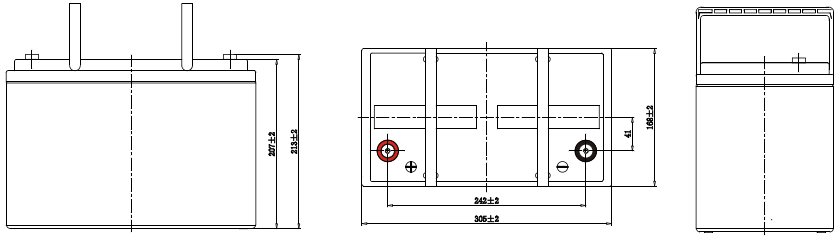
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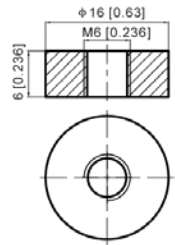
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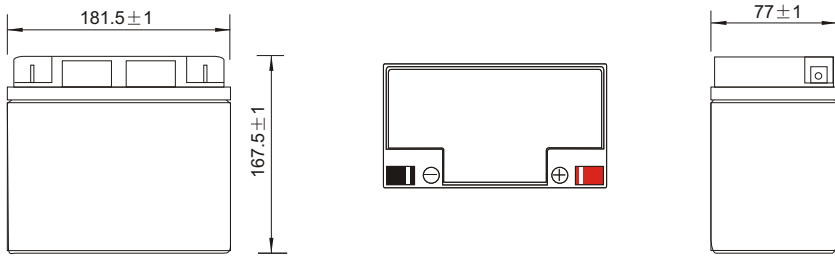
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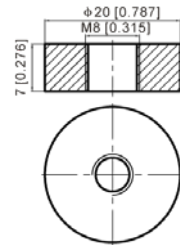
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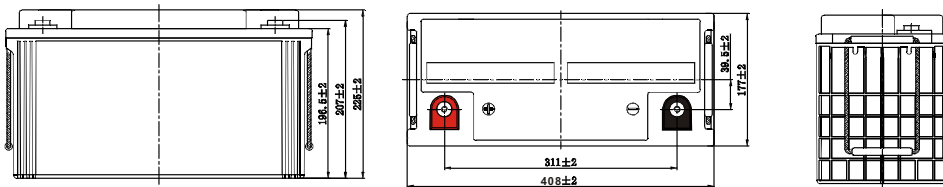
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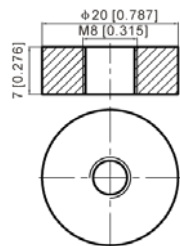
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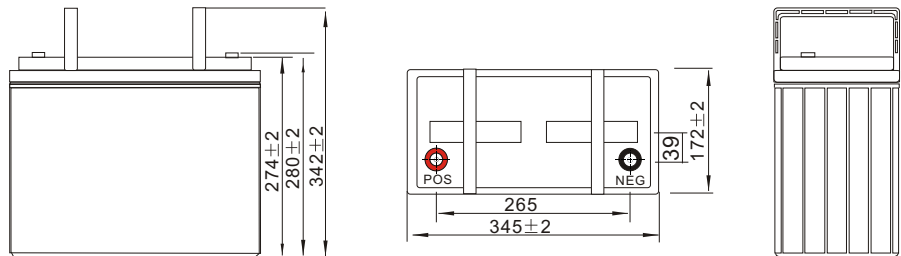
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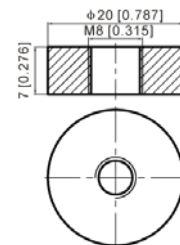
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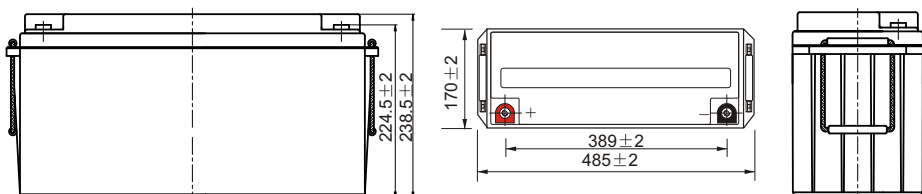
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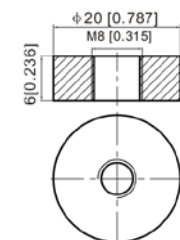
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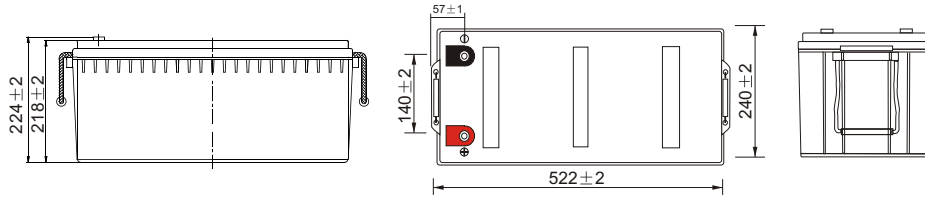
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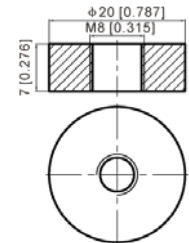


# Technical Drawings

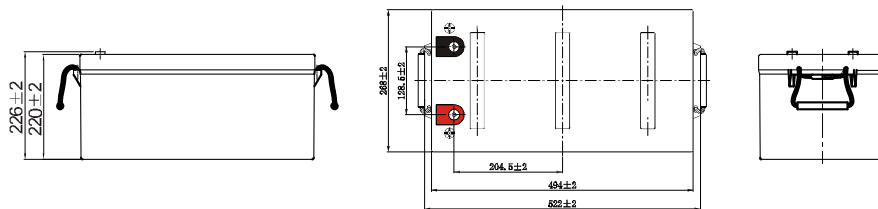
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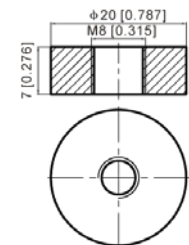
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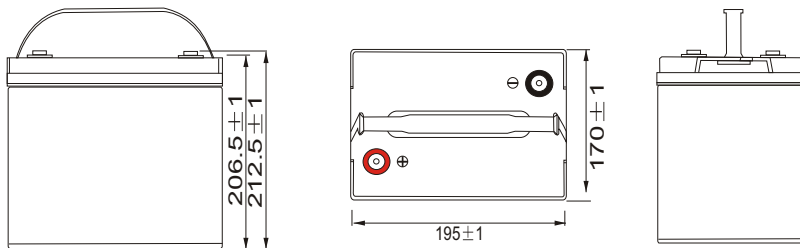
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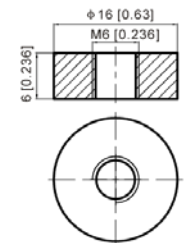
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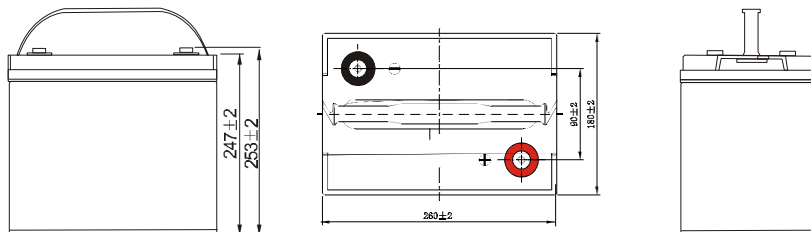
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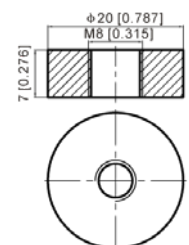
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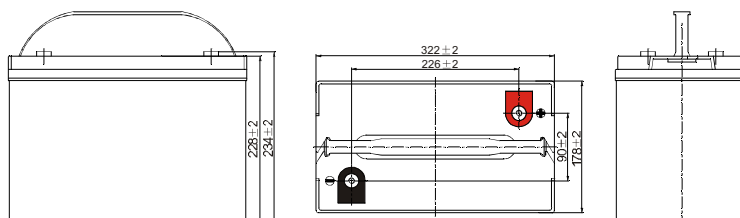
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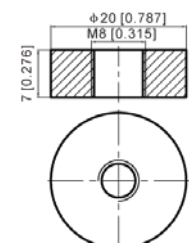
Connection T11



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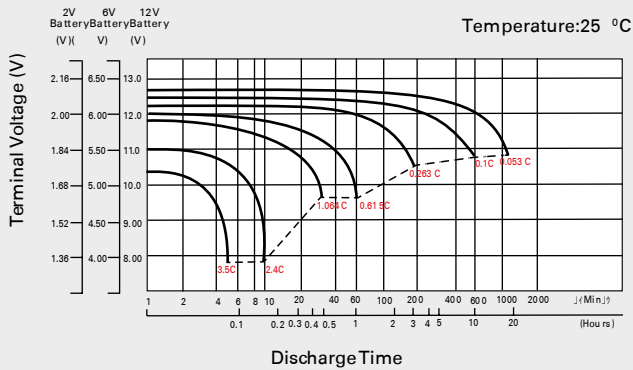


Connection T11

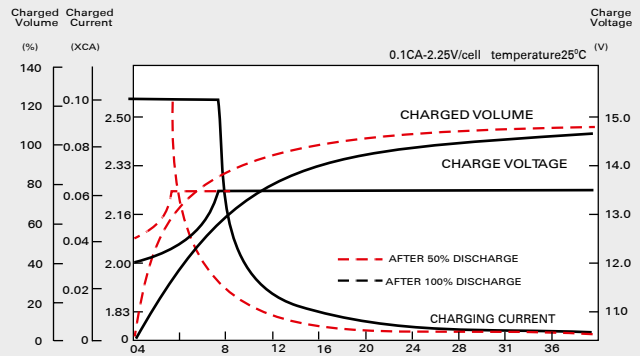




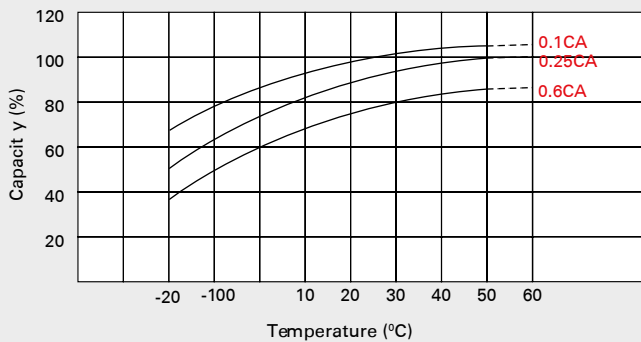
## Discharge behaviour



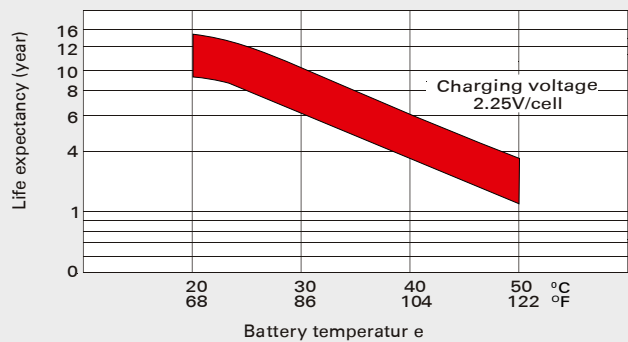
## Charge behaviour



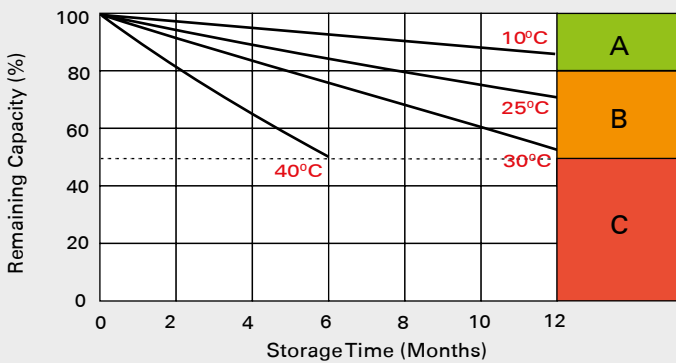
## Battery capacity in relation to temperature



## Temperature



## Self-discharge



- A** No supplementary charge required  
(Carry out supplementary charge before use if 100% capacity is required.)
- B** Supplementary charge required before use. Optional charging way as below:
  1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.
  2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.
  3. Charged for 8~10 hours at limited current 0.05CA.
- C** Supplementary charge may often fail to recover the capacity.  
The battery should never be left standing till this is reached.

You can find further information and details on our datasheets.

## ▶ Discharge data in Amperes

### 1.85 V/C - discharge in amperes at 25 °C

Battery type	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
LL12007	9.03	7.53	6.42	5.25	3.97	3.33	2.12	1.68	1.36	1.10	0.97	0.77	0.66	0.37
LL12012	15.50	12.90	11.00	8.99	6.80	5.70	3.64	2.88	2.34	1.89	1.66	1.33	1.13	0.63
LL12018	23.20	19.40	16.50	13.50	10.20	8.56	5.46	4.33	3.50	2.83	2.49	1.99	1.70	0.95
LL12026	33.50	28.00	23.90	19.50	14.70	12.40	7.89	6.25	5.06	4.09	3.59	2.87	2.45	1.37
LL12028	36.10	30.10	25.70	21.00	15.90	13.30	8.48	6.73	5.45	4.41	3.87	3.09	2.64	1.47
LL12033	42.60	35.50	30.30	24.70	18.70	15.70	10.00	7.93	6.43	5.19	4.56	3.65	3.12	1.73
LL12045	49.10	41.30	36.70	30.40	23.50	20.10	13.00	9.77	8.01	6.74	5.90	4.73	4.07	2.17
LL12055	64.40	54.10	48.00	39.80	30.70	26.30	17.00	12.80	10.50	8.82	7.73	6.20	5.33	2.84
LL12060	70.20	59.00	52.40	43.40	33.50	28.70	18.60	14.00	11.40	9.62	8.43	6.76	5.81	3.10
LL12065	76.10	64.00	56.70	47.10	36.30	31.10	20.10	15.10	12.40	10.40	9.13	7.33	6.30	3.36
LL12070	81.90	68.90	61.10	50.70	39.10	33.50	21.70	16.30	13.30	11.20	9.84	7.89	6.78	3.62
LL12075	87.80	73.80	65.50	54.30	41.90	35.90	23.20	17.50	14.30	12.00	10.50	8.46	7.27	3.88
LL12090	105.30	88.60	78.60	65.20	50.30	43.00	27.90	20.90	17.20	14.40	12.60	10.10	8.72	4.65
LL12100	117.00	98.40	87.30	72.40	55.90	47.80	31.00	23.30	19.10	16.00	14.10	11.30	9.69	5.17
LL12120	140.40	118.10	104.8	86.90	67.00	57.40	37.10	27.90	22.90	19.20	16.90	13.50	11.60	6.20
LL12140	163.80	137.80	122.20	101.40	78.20	66.90	43.30	32.60	26.70	22.50	19.70	15.80	13.60	7.24
LL12150	175.50	147.60	131.00	108.60	83.80	71.70	46.40	34.90	28.60	24.10	21.10	16.90	14.50	7.76
LL12200	234.00	196.80	174.60	144.80	111.70	95.60	61.90	46.50	38.10	32.10	28.10	22.50	19.40	10.30
LL12250	292.50	246.00	218.30	181.00	139.70	119.50	77.40	58.20	47.70	40.10	35.10	28.20	24.20	12.90
LL06100	117.00	98.40	87.30	72.40	55.90	47.80	31.00	23.30	19.10	16.00	14.10	11.30	9.69	5.17
LL06150	175.50	147.60	131.00	108.60	83.80	71.70	46.40	34.90	28.60	24.10	21.10	16.90	14.50	7.76
LL06200	234.00	196.80	174.60	144.80	111.70	95.60	61.90	46.50	38.10	32.10	28.10	22.50	19.40	10.30

### 1.80 V/C - discharge in amperes at 25 °C

Battery type	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
LL12007	11.50	9.10	7.59	6.19	4.61	3.73	2.32	1.81	1.46	1.18	1.04	0.82	0.70	0.37
LL12012	19.80	15.60	13.00	10.60	7.91	6.39	3.97	3.10	2.49	2.03	1.78	1.41	1.20	0.64
LL12018	29.70	23.40	19.50	15.90	11.90	9.58	5.96	4.65	3.74	3.04	2.67	2.11	1.80	0.95
LL12026	42.90	33.80	28.20	23.00	17.10	13.80	8.61	6.72	5.41	4.39	3.85	3.05	2.60	1.38
LL12028	46.10	36.40	30.40	24.80	18.50	14.90	9.27	7.24	5.82	4.73	4.15	3.28	2.80	1.48
LL12033	54.40	42.90	35.80	29.20	21.80	17.60	10.90	8.53	6.86	5.58	4.89	3.87	3.30	1.75
LL12045	56.20	46.40	40.50	33.00	25.30	21.20	14.00	10.50	8.51	7.14	6.25	4.98	4.20	2.25
LL12055	73.60	60.80	53.10	43.30	33.10	27.80	18.30	13.80	11.10	9.35	8.19	6.52	5.50	2.94
LL12060	80.30	66.30	57.90	47.20	36.20	30.30	20.00	15.00	12.20	10.20	8.93	7.12	6.00	3.21
LL12065	87.00	71.80	62.70	51.10	39.20	32.80	21.60	16.30	13.20	11.10	9.68	7.71	6.50	3.48
LL12070	93.70	77.30	67.60	55.00	42.20	35.30	23.30	17.50	14.20	11.90	10.40	8.30	7.00	3.75
LL12075	100.40	82.90	72.40	59.00	45.20	37.80	25.00	18.80	15.20	12.80	11.20	8.90	7.50	4.01
LL12090	120.50	99.40	86.90	70.80	54.20	45.40	29.90	22.50	18.20	15.30	13.40	10.70	9.00	4.82
LL12100	133.90	110.50	96.50	78.60	60.30	50.50	33.30	25.00	20.30	17.00	14.90	11.90	10.00	5.35
LL12120	160.70	132.60	115.80	94.40	72.30	60.50	39.90	30.00	24.30	20.40	17.90	14.20	12.00	6.42
LL12140	187.40	154.70	135.10	110.10	84.40	70.60	46.60	35.00	28.40	23.80	20.80	16.60	14.00	7.49
LL12150	200.80	165.70	144.80	118.00	90.40	75.70	49.90	37.50	30.40	25.50	22.30	17.80	15.00	8.03
LL12200	267.80	221.00	193.00	157.30	120.50	100.90	66.50	50.00	40.50	34.00	29.80	23.70	20.00	10.70
LL12250	334.70	276.20	241.30	196.60	150.70	126.10	83.20	62.50	50.70	42.50	37.20	29.70	25.00	13.40
LL06100	133.90	110.50	96.50	78.60	60.30	50.50	33.30	25.00	20.30	17.00	14.90	11.90	10.00	5.35
LL06150	200.80	165.70	144.80	118.00	90.40	75.70	49.90	37.50	30.40	25.50	22.30	17.80	15.00	8.03
LL06200	267.80	221.00	193.00	157.30	120.50	100.90	66.50	50.00	40.50	34.00	29.80	23.70	20.00	10.70

### 1.75 V/C - discharge in amperes at 25 °C

Battery type	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
LL12007	12.70	9.90	8.17	6.43	4.79	3.90	2.40	1.84	1.49	1.21	1.07	0.84	0.71	0.38
LL12012	21.70	17.00	14.00	11.00	8.21	6.68	4.12	3.16	2.56	2.08	1.83	1.43	1.21	0.64
LL12018	32.60	25.60	21.00	16.50	12.30	10.00	6.18	4.74	3.83	3.12	2.74	2.15	1.82	0.96
LL12026	47.10	36.90	30.30	23.90	17.80	14.50	8.93	6.85	5.54	4.51	3.96	3.10	2.63	1.39
LL12028	50.70	39.80	32.70	25.70	19.20	15.60	9.61	7.37	5.96	4.86	4.26	3.34	2.83	1.50
LL12033	59.80	46.90	38.50	30.30	22.60	18.40	11.30	8.69	7.03	5.73	5.02	3.94	3.33	1.77
LL12045	63.90	52.30	44.80	35.90	27.60	23.10	14.50	10.90	8.80	7.31	6.45	5.15	4.31	2.30
LL12055	83.60	68.50	58.70	47.00	36.20	30.30	19.00	14.30	11.50	9.57	8.44	6.74	5.65	3.02
LL12060	91.20	74.70	64.00	51.30	39.40	33.00	20.80	15.60	12.60	10.40	9.21	7.36	6.16	3.29
LL12065	98.80	80.90	69.30	55.50	42.70	35.80	22.50	16.90	13.60	11.30	10.00	7.97	6.67	3.57
LL12070	106.40	87.20	74.70	59.80	46.00	38.50	24.20	18.20	14.70	12.20	10.70	8.58	7.19	3.84
LL12075	114.00	93.40	80.00	64.10	49.30	41.30	26.00	19.50	15.70	13.10	11.50	9.20	7.70	4.11
LL12090	136.80	112.10	96.00	76.90	59.20	49.50	31.10	23.40	18.90	15.70	13.80	11.00	9.24	4.94
LL12100	152.10	124.50	106.70	85.50	65.70	55.00	34.60	26.00	21.00	17.40	15.40	12.30	10.30	5.49
LL12120	182.50	149.40	128.00	102.50	78.90	66.00	41.50	31.20	25.20	20.90	18.40	14.70	12.30	6.58
LL12140	212.90	174.40	149.30	119.60	92.00	77.00	48.40	36.40	29.30	24.40	21.50	17.20	14.40	7.68
LL12150	228.10	186.80	160.00	128.20	98.60	82.50	51.90	39.00	31.40	26.10	23.00	18.40	15.40	8.23
LL12200	304.10	249.10	213.30	170.90	131.50	110.00	69.20	52.00	41.90	34.80	30.70	24.50	20.50	11.00
LL12250	380.10	311.30	266.70	213.60	164.30	137.50	86.50	65.00	52.40	43.50	38.40	30.70	25.70	13.70
LL06100	152.10	124.50	106.70	85.50	65.70	55.00	34.60	26.00	21.00	17.40	15.40	12.30	10.30	5.49
LL06150	228.10	186.80	160.00	128.20	98.60	82.50	51.90	39.00	31.40	26.10	23.00	18.40	15.40	8.23
LL06200	304.10	249.10	213.30	170.90	131.50	110.00	69.20	52.00	41.90	34.80	30.70	24.50	20.50	11.00

### 1.70 V/C - discharge in amperes at 25 °C

Battery type	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
LL12007	13.80	10.60	8.58	6.69	4.98	4.02	2.50	1.89	1.53	1.24	1.09	0.85	0.71	0.38
LL12012	23.70	18.20	14.70	11.50	8.54	6.90	4.28	3.25	2.62	2.13	1.86	1.45	1.22	0.65
LL12018	35.50	27.30	22.10	17.20	12.80	10.30	6.42	4.87	3.93	3.20	2.80	2.18	1.84	0.98
LL12026	51.30	39.40	31.90	24.80	18.50	14.90	9.28	7.04	5.67	4.62	4.04	3.15	2.65	1.42
LL12028	55.30	42.50	34.30	26.80	19.90	16.10	10.00	7.58	6.11	4.98	4.35	3.39	2.86	1.53
LL12033	65.10	50.00	40.50	31.50	23.50	19.00	11.80	8.93	7.20	5.87	5.13	3.99	3.37	1.80
LL12045	72.10	58.00	49.50	39.20	29.70	24.40	15.30	11.50	9.20	7.73	6.76	5.37	4.48	2.36
LL12055	94.50	76.00	64.80	51.30	38.90	32.00	20.00	15.10	12.00	10.10	8.85	7.03	5.86	3.09
LL12060	103.00	82.90	70.60	56.00	42.50	34.90	21.90	16.40	13.10	11.00	9.65	7.67	6.40	3.38
LL12065	111.60	89.80	75.50	60.60	46.00	37.80	23.70	17.80	14.20	12.00	10.50	8.30	6.93	3.66
LL12070	120.20	96.70	82.40	65.30	49.60	40.70	25.50	19.20	15.30	12.90	11.30	8.94	7.46	3.94
LL12075	128.80	103.60	88.30	70.00	53.10	43.70	27.30	20.50	16.40	13.80	12.10	9.58	8.00	4.22
LL12090	154.60	124.40	106.00	84.00	63.70	52.40	32.80	24.60	19.70	16.60	14.50	11.50	9.60	5.06
LL12100	171.70	138.20	117.70	93.30	70.80	58.20	36.50	27.40	21.90	18.40	16.10	12.80	10.70	5.63
LL12120	206.10	165.80	141.30	112.00	85.00	69.80	43.70	32.80	26.30	22.10	19.30	15.30	12.80	6.75
LL12140	240.40	193.40	164.80	130.60	99.10	81.50	51.00	38.30	30.70	25.80	22.50	17.90	14.90	7.88
LL12150	257.60	207.30	176.60	139.90	106.20	87.30	54.70	41.10	32.90	27.60	24.10	19.20	16.00	8.44
LL12200	343.50	276.30	235.50	186.60	141.60	116.40	72.90	54.70	43.80	36.80	32.20	25.60	21.30	11.30
LL12250	429.30	345.40	294.30	233.20	177.00	145.50	91.10	68.40	54.80	46.00	40.20	31.90	26.70	14.10
LL06100	171.70	138.20	117.70	93.30	70.80	58.20	36.50	27.40	21.90	18.40	16.10	12.80	10.70	5.63
LL06150	257.60	207.30	176.60	139.90	106.20	87.30	54.70	41.10	32.90	27.60	24.10	19.20	16.00	8.44
LL06200	343.50	276.30	235.50	186.60	141.60	116.40	72.90	54.70	43.80	36.80	32.20	25.60	21.30	11.30

## ▶ Discharge data in Amperes

### 1.65 V/C - discharge in amperes at 25 °C

Battery type	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
LL12007	14.90	11.30	9.12	7.06	5.10	4.16	2.57	1.98	1.58	1.28	1.11	0.86	0.73	0.39
LL12012	25.60	19.40	15.60	12.10	8.75	7.13	4.40	3.39	2.71	2.19	1.91	1.47	1.25	0.66
LL12018	38.30	29.00	23.40	18.10	13.10	10.70	6.60	5.08	4.06	3.29	2.86	2.21	1.87	0.99
LL12026	55.40	41.90	33.90	26.20	19.00	15.40	9.54	7.34	5.87	4.75	4.13	3.20	2.71	1.44
LL12028	59.60	45.20	36.50	28.20	20.40	16.60	10.30	7.90	6.32	5.12	4.45	3.44	2.91	1.55
LL12033	70.30	53.20	43.00	33.30	24.10	19.60	12.10	9.31	7.45	6.03	5.24	4.06	3.44	1.82
LL12045	77.50	62.10	52.60	41.40	31.50	25.30	15.90	12.00	9.56	7.97	6.99	5.55	4.60	2.44
LL12055	101.40	81.40	68.90	54.10	41.20	33.10	20.80	15.70	12.50	10.40	9.16	7.26	6.03	3.19
LL12060	110.70	88.80	75.20	59.10	45.00	36.10	22.70	17.10	13.70	11.40	9.99	7.93	6.58	3.48
LL12065	119.90	96.20	81.40	64.00	48.70	39.10	24.60	18.50	14.80	12.30	10.80	8.59	7.13	3.77
LL12070	129.10	103.60	87.70	68.90	52.50	42.10	26.50	19.90	15.90	13.30	11.70	9.25	7.67	4.06
LL12075	138.30	111.00	93.90	73.80	56.20	45.20	28.30	21.40	17.10	14.20	12.50	9.91	8.22	4.35
LL12090	166.00	133.10	112.70	88.60	67.40	54.20	34.00	25.60	20.50	17.10	15.00	11.90	9.87	5.22
LL12100	184.40	147.90	125.30	98.50	74.90	60.20	37.80	28.50	22.80	19.00	16.70	13.20	11.00	5.80
LL12120	221.30	177.50	150.30	118.10	89.90	72.20	45.30	34.20	27.30	22.80	20.00	15.90	13.20	6.96
LL12140	258.20	207.10	175.40	137.80	104.90	84.30	52.90	39.90	31.90	26.60	23.30	18.50	15.30	8.12
LL12150	276.60	221.90	187.90	147.70	112.40	90.30	56.70	42.70	34.10	28.50	25.00	19.80	16.40	8.70
LL12200	368.80	295.90	250.50	196.90	149.90	120.40	75.60	56.90	45.50	38.00	33.30	26.40	21.90	11.60
LL12250	461.00	369.80	313.10	246.10	187.30	150.50	94.50	71.20	56.90	47.50	41.60	33.00	27.40	14.50
LL06100	184.40	147.90	125.30	98.50	74.90	60.20	37.80	28.50	22.80	19.00	16.70	13.20	11.00	5.80
LL06150	276.60	221.90	187.90	147.70	112.40	90.30	56.70	42.70	34.10	29.20	25.50	20.20	16.80	8.84
LL06200	368.80	295.90	250.50	196.90	149.90	120.40	75.60	56.90	45.50	38.00	33.30	26.40	21.90	11.60

### 1.60 V/C - discharge in amperes at 25 °C

Battery type	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
LL12007	16.20	12.10	9.71	7.45	5.32	4.31	2.65	2.04	1.63	1.32	1.14	0.87	0.74	0.39
LL12012	27.80	20.70	16.70	12.80	9.12	7.38	4.55	3.49	2.79	2.27	1.95	1.49	1.26	0.67
LL12018	41.60	31.00	25.00	19.20	13.70	11.10	6.83	5.23	4.19	3.40	2.92	2.23	1.89	1.00
LL12026	60.10	44.80	36.10	27.70	19.80	16.00	9.86	7.56	6.05	4.91	4.22	3.23	2.74	1.44
LL12028	64.80	48.30	38.90	29.80	21.30	17.20	10.60	8.14	6.52	5.29	4.54	3.47	2.95	1.56
LL12033	76.30	56.90	45.80	35.10	25.10	20.30	12.50	9.60	7.68	6.23	5.35	4.10	3.47	1.83
LL12045	85.20	68.10	57.10	44.10	32.70	26.00	16.30	12.30	9.77	8.17	7.14	5.64	4.70	2.48
LL12055	111.60	89.10	74.80	57.80	42.80	34.10	21.30	16.10	12.80	10.70	9.35	7.39	6.16	3.24
LL12060	121.70	97.20	81.60	63.00	46.70	37.20	23.30	17.50	14.00	11.70	10.20	8.06	6.72	3.54
LL12065	131.90	105.30	88.40	68.30	50.60	40.30	25.20	19.00	15.10	12.60	11.10	8.73	7.27	3.83
LL12070	142.00	113.40	95.20	73.50	54.50	43.40	27.10	20.40	16.30	13.60	11.90	9.41	7.83	4.13
LL12075	152.20	121.50	102.10	78.80	58.40	46.50	29.10	21.90	17.50	14.60	12.80	10.10	8.39	4.42
LL12090	182.60	145.80	122.50	94.50	70.10	55.80	34.90	26.30	20.90	17.50	15.30	12.10	10.10	5.30
LL12100	202.90	162.00	136.10	105.10	77.90	62.00	38.80	29.20	23.30	19.40	17.00	13.40	11.20	5.89
LL12120	243.50	194.40	163.30	126.10	93.40	74.40	46.50	35.00	27.90	23.30	20.40	16.10	13.40	7.07
LL12140	284.00	226.80	190.50	147.10	109.00	86.80	54.30	40.90	32.60	27.20	23.80	18.80	15.70	8.25
LL12150	304.30	243.00	204.10	157.60	116.80	93.00	58.10	43.80	34.90	29.20	25.50	20.20	16.80	8.84
LL12200	405.80	324.10	272.10	210.10	155.70	124.00	77.50	58.40	46.50	38.90	34.00	26.90	22.40	11.80
LL12250	-	405.10	340.20	262.60	194.70	155.00	96.90	73.00	58.20	48.60	42.50	33.60	28.00	14.70
LL06100	202.90	162.00	136.10	105.10	77.90	62.00	38.80	29.20	23.30	19.40	17.00	13.40	11.20	5.89
LL06150	304.30	243.00	204.10	157.60	116.80	93.00	58.10	43.80	34.90	29.20	25.50	20.20	16.80	8.84
LL06200	405.80	324.10	272.10	210.10	155.70	124.00	77.50	58.40	46.50	38.90	34.00	26.9	22.40	11.80

## ▶ Discharge data in Watts / cell

### 1.85 V/C - discharge in watts per cell at 25 °C

Battery type	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
LL12007	17.00	14.30	12.30	10.20	7.76	6.53	4.20	3.34	2.71	2.20	1.93	1.55	1.33	0.74
LL12012	29.10	24.60	21.10	17.50	13.30	11.20	7.20	5.72	4.65	3.77	3.32	2.66	2.28	1.27
LL12018	43.70	36.80	31.70	26.20	20.00	16.80	10.80	8.58	6.98	5.65	4.97	4.00	3.42	1.91
LL12026	63.10	53.20	45.80	37.80	28.80	24.30	15.60	12.40	10.10	8.17	7.18	5.77	4.94	2.75
LL12028	68.00	57.30	49.30	40.70	31.10	26.10	16.80	13.40	10.90	8.79	7.74	6.22	5.32	2.96
LL12033	80.10	67.50	58.10	48.00	36.60	30.80	19.80	15.70	12.80	10.40	9.10	7.30	6.30	3.50
LL12045	91.80	77.90	69.80	58.60	45.60	39.10	25.50	19.20	15.80	13.30	11.70	9.44	8.14	4.34
LL12055	120.20	102.10	91.50	76.70	59.70	51.20	33.40	25.20	20.70	17.50	15.30	12.40	10.70	5.69
LL12060	131.10	111.30	99.80	83.70	65.10	55.90	36.40	27.50	22.60	19.10	16.70	13.50	11.60	6.21
LL12065	142.00	120.60	108.10	90.60	70.50	60.60	39.50	29.80	24.50	20.60	18.10	14.60	12.60	6.72
LL12070	152.90	129.90	116.40	97.60	76.00	65.20	42.50	32.10	26.40	22.20	19.50	15.70	13.60	7.24
LL12075	163.80	139.20	124.70	104.60	81.40	69.90	45.50	34.40	28.20	23.80	20.90	16.90	14.50	7.76
LL12090	196.60	167.00	149.70	125.50	97.70	83.80	54.70	41.20	33.90	28.60	25.10	20.20	17.40	9.31
LL12100	218.50	185.60	166.30	139.40	108.50	93.20	60.70	45.80	37.70	31.80	27.90	22.50	19.40	10.30
LL12120	262.20	222.70	199.60	167.30	130.20	111.80	72.90	55.00	45.20	38.10	33.50	27.00	23.20	12.40
LL12140	305.80	259.80	232.80	195.20	151.90	130.40	85.00	64.20	52.70	44.50	39.10	31.50	27.10	14.50
LL12150	327.70	278.40	249.50	209.20	162.80	139.70	91.10	68.70	56.50	47.60	41.90	33.70	29.10	15.50
LL12200	436.90	371.20	332.60	278.90	217.00	186.30	121.40	91.70	75.30	63.50	55.80	45.00	38.70	20.70
LL12250	546.20	464.00	415.80	348.60	271.30	232.90	151.80	114.60	94.10	79.40	69.80	56.20	48.40	25.90
LL06100	218.50	185.60	166.30	139.40	108.50	93.20	60.70	45.80	37.70	31.80	27.90	22.50	19.40	10.30
LL06150	327.70	278.40	249.50	209.20	162.80	139.70	91.10	68.70	56.50	47.60	41.90	33.70	29.10	15.50
LL06200	436.90	371.20	332.60	278.90	217.00	186.30	121.40	91.70	75.30	63.50	55.80	45.00	38.70	20.70

### 1.80 V/C - discharge in watts per cell at 25 °C

Battery type	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
LL12007	21.50	17.10	14.40	11.80	8.96	7.28	4.54	3.57	2.88	2.35	2.07	1.65	1.41	0.75
LL12012	36.80	29.30	24.60	20.30	15.40	12.50	7.80	6.12	4.94	4.03	3.54	2.82	2.41	1.28
LL12018	55.20	43.90	36.90	30.40	23.00	18.70	11.70	9.18	7.41	6.04	5.32	4.23	3.62	1.92
LL12026	79.70	63.40	53.40	44.00	33.30	27.00	16.90	13.30	10.70	8.73	7.68	6.11	5.23	2.77
LL12028	85.90	68.30	57.50	47.30	35.80	29.10	18.20	14.30	11.50	9.40	8.27	6.58	5.63	2.99
LL12033	101.20	80.50	67.70	55.80	42.20	34.30	21.50	16.80	13.60	11.10	9.70	7.80	6.60	3.50
LL12045	103.80	86.40	76.10	62.60	48.80	41.10	27.20	20.60	16.70	14.10	12.40	9.91	8.38	4.49
LL12055	135.90	113.10	99.70	82.00	63.90	53.80	35.70	26.90	21.90	18.40	16.20	13.00	11.00	5.88
LL12060	148.20	123.40	108.70	89.50	69.70	58.70	38.90	29.40	23.90	20.10	17.70	14.20	12.00	6.41
LL12065	160.60	133.70	117.80	97.00	75.50	63.60	42.10	31.80	25.90	21.80	19.10	15.30	13.00	6.95
LL12070	172.90	143.90	126.80	104.40	81.30	68.50	45.40	34.30	27.90	23.50	20.60	16.50	14.00	7.48
LL12075	185.30	154.20	135.90	111.90	87.10	73.40	48.60	36.70	29.90	25.10	22.10	17.70	15.00	8.02
LL12090	222.40	185.10	163.10	134.20	104.50	88.00	58.40	44.10	35.80	30.20	26.50	21.20	18.00	9.62
LL12100	247.10	205.60	181.20	149.20	116.10	97.80	64.80	49.00	39.80	33.50	29.40	23.60	20.00	10.70
LL12120	296.50	246.70	217.40	179.00	139.40	117.40	77.80	58.70	47.80	40.20	35.30	28.30	24.00	12.80
LL12140	345.90	287.90	253.70	208.80	162.60	136.90	90.80	68.50	55.70	46.90	41.20	33.00	27.90	15.00
LL12150	370.60	308.40	271.80	223.70	174.20	146.70	97.30	73.40	59.70	50.30	44.20	35.40	29.90	16.00
LL12200	494.10	411.20	362.40	298.30	232.30	195.60	129.70	97.90	79.60	67.00	58.90	47.20	39.90	21.40
LL12250	617.70	514.10	453.00	372.90	290.40	244.50	162.10	122.40	99.50	83.80	73.60	59.00	49.90	26.70
LL06100	247.10	205.60	181.20	149.20	116.10	97.80	64.80	49.00	39.80	33.50	29.40	23.60	20.00	10.70
LL06150	370.60	308.40	271.80	223.70	174.20	146.70	97.30	73.40	59.70	50.30	44.20	35.40	29.90	16.00
LL06200	494.10	411.20	362.40	298.30	232.30	195.60	129.70	97.90	79.60	67.00	58.90	47.20	39.90	21.40

## ▶ Discharge data in Watts / cell

### 1.75 V/C - discharge in watts per cell at 25 °C

Battery type	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
LL12007	23.20	18.40	15.30	12.20	9.21	7.58	4.70	3.62	2.94	2.40	2.12	1.67	1.42	0.75
LL12012	39.80	31.60	26.20	20.90	15.80	13.00	8.06	6.21	5.04	4.12	3.63	2.86	2.43	1.29
LL12018	59.70	47.40	39.40	31.30	23.70	19.50	12.10	9.32	7.56	6.18	5.44	4.29	3.65	1.94
LL12026	86.20	68.40	56.90	45.30	34.20	28.20	17.50	13.50	10.90	8.93	7.86	6.20	5.27	2.80
LL12028	92.90	73.70	61.20	48.70	36.90	30.30	18.80	14.50	11.80	9.62	8.47	6.68	5.68	3.01
LL12033	109.40	86.90	72.20	57.50	43.40	35.70	22.20	17.10	13.90	11.30	10.00	7.90	6.70	3.50
LL12045	116.00	96.20	83.30	67.50	52.70	44.60	28.20	21.30	17.20	14.40	12.70	10.20	8.60	4.60
LL12055	151.90	125.90	109.10	88.40	69.00	58.40	37.00	27.90	22.60	18.80	16.70	13.40	11.30	6.02
LL12060	165.70	137.40	119.00	96.50	75.30	63.70	40.30	30.40	24.60	20.50	18.20	14.60	12.30	6.57
LL12065	179.50	148.80	128.90	104.50	81.60	69.00	43.70	33.00	26.70	22.20	19.70	15.80	13.30	7.12
LL12070	193.30	160.30	138.80	112.50	87.80	74.30	47.00	35.50	28.70	23.90	21.20	17.00	14.30	7.66
LL12075	207.10	171.70	148.80	120.60	94.10	79.60	50.40	38.00	30.80	25.60	22.70	18.20	15.40	8.21
LL12090	248.50	206.00	178.50	144.70	112.90	95.50	60.50	45.60	36.90	30.80	27.20	21.90	18.40	9.85
LL12100	276.20	228.90	198.30	160.80	125.50	106.10	67.20	50.70	41.00	34.20	30.30	24.30	20.50	10.90
LL12120	331.40	274.70	238.00	192.90	150.60	127.40	80.60	60.90	49.30	41.00	36.30	29.20	24.60	13.10
LL12140	386.60	320.50	277.70	225.10	175.70	148.60	94.10	71.00	57.50	47.90	42.40	34.10	28.70	15.30
LL12150	414.20	343.40	297.50	241.10	188.20	159.20	100.80	76.10	61.60	51.30	45.40	36.50	30.70	16.40
LL12200	552.30	457.90	396.70	321.50	251.00	212.30	134.40	101.40	82.10	68.40	60.60	48.60	40.90	21.90
LL12250	690.40	572.30	495.90	401.90	313.70	265.30	168.00	126.80	102.60	85.50	75.70	60.80	51.20	27.40
LL06100	276.20	228.0	198.30	160.80	125.50	106.10	67.20	50.70	41.00	34.20	30.30	24.30	20.50	10.90
LL06150	414.20	343.40	297.50	241.10	188.20	159.20	100.80	76.10	61.60	51.30	45.40	36.50	30.70	16.40
LL06200	552.30	457.90	396.70	321.50	251.00	212.30	134.40	101.40	82.10	68.40	60.60	48.60	40.90	21.90

### 1.70 V/C - discharge in watts per cell at 25 °C

Battery type	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
LL12007	24.70	19.40	16.00	12.60	9.55	7.80	4.88	3.72	3.01	2.46	2.16	1.69	1.43	0.77
LL12012	42.40	33.30	27.40	21.60	16.40	13.40	8.36	6.37	5.16	4.22	3.70	2.90	2.46	1.31
LL12018	63.60	49.90	41.10	32.40	24.50	20.10	12.50	9.56	7.73	6.33	5.55	4.35	3.69	1.97
LL12026	91.90	72.10	59.30	46.90	35.50	29.00	18.10	13.80	11.20	9.14	8.02	6.28	5.32	2.85
LL12028	99.00	77.60	63.90	50.50	38.20	31.20	19.50	14.90	12.00	9.84	8.63	6.77	5.73	3.07
LL12033	116.60	91.50	75.30	59.50	45.00	36.80	23.00	17.50	14.20	11.60	10.20	8.00	6.80	3.60
LL12045	128.10	105.20	91.30	73.30	56.60	47.00	29.70	22.40	18.00	15.20	13.30	10.60	8.92	4.71
LL12055	167.70	137.80	119.50	96.00	74.10	61.60	38.80	29.30	23.50	19.90	17.40	13.90	11.70	6.17
LL12060	182.90	150.30	130.40	104.70	80.80	67.20	42.40	32.00	25.70	21.70	19.00	15.20	12.70	6.73
LL12065	198.20	162.80	141.30	113.50	87.50	72.80	45.90	34.60	27.80	23.50	20.60	16.50	13.80	7.29
LL12070	213.40	175.30	152.10	122.20	94.30	78.40	49.40	37.30	30.00	25.30	22.20	17.70	14.90	7.85
LL12075	228.70	187.90	163.00	130.90	101.00	84.00	53.00	40.00	32.10	27.10	23.80	19.00	15.90	8.41
LL12090	274.40	225.40	195.60	157.10	121.20	100.80	63.60	48.00	38.50	32.50	28.50	22.80	19.10	10.10
LL12100	304.90	250.50	217.30	174.60	134.70	112.00	70.60	53.30	42.80	36.10	31.70	25.30	21.20	11.20
LL12120	365.90	300.60	260.80	209.50	161.60	134.40	84.80	63.90	51.40	43.30	38.00	30.40	25.50	13.50
LL12140	426.90	350.70	304.20	244.40	188.50	156.70	98.90	74.60	59.90	50.50	44.40	35.50	29.70	15.70
LL12150	457.40	375.70	326.00	261.80	202.00	167.90	105.90	79.90	64.20	54.10	47.50	38.00	31.90	16.80
LL12200	609.80	501.00	434.60	349.10	269.30	223.90	141.30	106.60	85.60	72.20	63.40	50.60	42.50	22.40
LL12250	762.30	626.20	543.30	436.40	336.70	279.90	176.60	133.20	107.00	90.20	79.20	63.30	53.10	28.00
LL06100	304.90	250.50	217.30	174.60	134.70	112.00	70.60	53.30	42.80	36.10	31.70	25.30	21.20	11.20
LL06150	457.40	375.70	326.00	261.80	202.00	167.90	105.90	79.90	64.20	54.10	47.50	38.00	31.90	16.80
LL06200	609.80	501.00	434.60	349.10	269.30	223.90	141.30	106.60	85.60	72.20	63.40	50.60	42.50	22.40

### 1.65 V/C - discharge in wattper cell at 25 °C

Battery type	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
LL12007	26.50	20.50	16.80	13.20	9.70	8.00	4.99	3.86	3.10	2.52	2.20	1.71	1.46	0.78
LL12012	45.40	35.10	28.90	22.60	16.60	13.70	8.55	6.62	5.31	4.32	3.77	2.94	2.50	1.33
LL12018	68.00	52.70	43.30	33.90	24.90	20.60	12.80	9.92	7.97	6.48	5.65	4.41	3.76	1.99
LL12026	98.30	76.10	62.60	49.00	36.00	29.70	18.50	14.30	11.50	9.36	8.17	6.37	5.42	2.88
LL12028	105.80	81.90	67.40	52.80	38.80	32.00	19.90	15.40	12.40	10.10	8.79	6.85	5.84	3.10
LL12033	124.70	96.50	79.40	62.20	45.70	37.70	23.50	18.20	14.60	11.90	10.40	8.10	6.90	3.70
LL12045	136.30	111.80	96.40	76.70	59.30	48.30	30.60	23.20	18.60	15.60	13.70	11.00	9.16	4.85
LL12055	178.50	146.40	126.20	100.50	77.70	63.20	40.00	30.40	24.40	20.40	18.00	14.40	12.00	6.35
LL12060	194.70	159.70	137.70	109.60	84.70	69.00	43.70	33.10	26.60	22.30	19.60	15.70	13.10	6.93
LL12065	210.90	173.00	149.20	118.80	91.80	74.70	47.30	35.90	28.80	24.10	21.20	17.00	14.20	7.51
LL12070	227.10	186.30	160.60	127.90	98.90	80.50	51.00	38.60	31.00	26.00	22.90	18.30	15.30	8.09
LL12075	243.30	199.60	172.10	137.00	105.90	86.20	54.60	41.40	33.20	27.80	24.50	19.60	16.40	8.67
LL12090	292.00	239.50	206.50	164.40	127.10	103.50	65.50	49.70	39.90	33.40	29.40	23.50	19.60	10.40
LL12100	324.50	266.20	229.50	182.70	141.20	115.00	72.80	55.20	44.30	37.10	32.70	26.10	21.80	11.60
LL12120	389.40	319.40	275.40	219.20	169.50	138.00	87.40	66.20	53.20	44.50	39.20	31.30	26.20	13.90
LL12140	454.30	372.60	321.30	255.80	197.70	161.00	101.90	77.30	62.10	51.90	45.80	36.60	30.50	16.20
LL12150	486.70	399.20	344.20	274.10	211.90	172.50	109.20	82.80	66.50	55.70	49.00	39.20	32.70	17.30
LL12200	648.90	532.30	458.90	365.40	282.50	230.00	145.60	110.40	88.60	74.20	65.40	52.20	43.60	23.10
LL12250	811.20	665.40	573.70	456.80	353.10	287.50	182.00	138.00	110.80	92.80	81.70	65.30	54.50	28.90
LL06100	324.50	266.20	229.50	182.70	141.20	115.00	72.80	55.20	44.30	37.10	32.70	26.10	21.80	11.60
LL06150	486.70	399.20	344.20	274.10	211.90	172.50	109.20	82.80	66.50	55.70	49.00	39.20	32.70	17.30
LL06200	648.90	532.30	458.90	365.40	282.50	230.00	145.60	110.40	88.60	74.20	65.40	52.20	43.60	23.10

### 1.60 V/C - discharge in watts per cell at 25 °C

Battery type	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
LL12007	28.10	21.50	17.70	13.80	10.05	8.24	5.13	3.96	3.19	2.60	2.24	1.73	1.47	0.78
LL12012	48.10	36.90	30.40	23.70	17.20	14.10	8.79	6.79	5.46	4.45	3.84	2.96	2.53	1.34
LL12018	72.20	55.40	45.60	35.60	25.90	21.20	13.20	10.20	8.20	6.68	5.76	4.44	3.79	2.00
LL12026	104.30	80.00	65.90	51.40	37.30	30.60	19.10	14.70	11.80	9.64	8.32	6.41	5.47	2.89
LL12028	112.30	86.20	71.0	55.40	40.20	33.00	20.50	15.80	12.70	10.40	8.96	6.91	5.89	3.11
LL12033	132.40	101.60	83.70	65.30	47.40	38.90	24.20	18.70	15.00	12.20	10.60	8.10	6.90	3.70
LL12045	146.50	120.40	103.60	81.30	61.30	49.50	31.20	23.70	19.00	15.90	14.00	11.10	9.33	4.92
LL12055	191.90	157.70	135.60	106.50	80.30	64.80	40.90	31.00	24.80	20.80	18.30	14.60	12.20	6.45
LL12060	209.30	172.10	148.00	116.20	87.60	70.70	44.60	33.80	27.10	22.70	20.00	15.90	13.30	7.03
LL12065	226.80	186.4	160.30	125.80	94.90	76.60	48.30	36.60	29.40	24.60	21.60	17.20	14.40	7.62
LL12070	244.20	200.70	172.60	135.50	102.20	82.50	52.00	39.40	31.60	26.50	23.30	18.60	15.60	8.21
LL12075	261.70	215.10	185.00	145.20	109.50	88.40	55.70	42.30	33.90	28.40	25.00	19.90	16.70	8.79
LL12090	314.00	258.10	221.90	174.30	131.40	106.00	66.90	50.70	40.70	34.10	29.90	23.90	20.00	10.60
LL12100	348.90	286.80	246.60	193.60	146.00	117.80	74.30	56.40	45.20	37.90	33.30	26.50	22.20	11.70
LL12120	418.70	344.10	295.90	232.30	175.20	141.40	89.20	67.60	54.20	45.50	39.90	31.80	26.70	14.10
LL12140	488.50	401.50	345.20	271.10	204.40	164.90	104.00	78.90	63.20	53.00	46.60	37.10	31.10	16.40
LL12150	523.40	430.10	369.90	290.40	219.00	176.70	111.40	84.50	67.80	56.80	49.90	39.80	33.30	17.60
LL12200	697.80	573.50	493.20	387.20	292.00	235.60	148.60	112.70	90.30	75.80	66.50	53.00	44.40	23.40
LL12250	-	716.90	616.50	484.00	365.00	294.50	185.70	140.90	112.90	94.70	83.20	66.30	55.60	29.30
LL06100	348.90	286.80	246.60	193.60	146.00	117.80	74.30	56.40	45.20	37.90	33.30	26.50	22.20	11.70
LL06150	523.40	430.10	369.90	290.40	219.00	176.70	111.40	84.50	67.80	56.80	49.90	39.80	33.30	17.60
LL06200	697.80	573.50	493.20	387.20	292.00	235.60	148.60	112.70	90.30	75.80	66.50	53.00	44.40	23.40





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